



SEQUENCE LISTING

<110> Kaia Pat

<120> PROFILING TUMOR SPECIFIC MARKERS FOR THE
DIAGNOSIS AND TREATMENT OF NEOPLASTIC DISEASE

<130> CEMINES.002A

<140> 09/992,665
<141> 2001-11-13

<150> 60/249,508
<151> 2000-11-16

<160> 380

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Probe

<400> 1
Gln Asp Asp Glu Gln Glu Arg Arg Arg Arg Gly Arg Thr Arg
1 5 10 15

<210> 2
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Probe

<400> 2
Cys Lys Arg Arg Pro Ser Arg Ser Arg Ala Val Ser Arg
1 5 10

<210> 3
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Probe

<400> 3
 Gln Arg Arg Ser Arg Arg Lys Lys Ala Asn Asp Arg Glu Arg
 1 5 10

<210> 4
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Probe

<400> 4
 Asp Asp Asp Gln Lys Pro Lys Arg Arg Gly Pro Lys Lys Lys Lys Met
 1 5 10 15

<210> 5
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Probe

<400> 5
 Gln Asp Ser Ser Pro Asp His Glu Lys Ser Tyr His
 1 5 10

<210> 6
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Probe

<400> 6
 Gly Thr Leu Asp Asn Ser Lys Ser Met Lys Pro
 1 5 10

<210> 7
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Probe

<400> 7
 Ser Phe Asn Asn Asp Lys Lys Leu Ser Lys Tyr Glu Thr
 1 5 10

<210> 8
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Probe

<400> 8
Gly Leu Arg Cys Glu Gln Arg Gly Arg Asp His Pro Tyr
1 5 10

<210> 9
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Probe

<400> 9
Ala Asp Gly Gln Pro Ser Gly Gly Gly His Lys Ser Ala
1 5 10

<210> 10
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Probe

<400> 10
Pro Thr His Ser Glu Thr Glu Ser Gly Phe Ser Asp Cys Gly Gly Gly
1 5 10 15
Ala

<210> 11
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Probe

<400> 11
Ala Ala Asp Ser Asp His Pro Ser Ser Ala His Ser Asp Pro Glu Ser
1 5 10 15

<210> 12
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Probe

<400> 12
Thr Pro Asp Lys Pro Lys Thr Ala Ser Glu His
1 5 10

<210> 13
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Probe

<400> 13
Ser Leu Lys Pro Leu Leu Glu Lys Arg Arg Arg Ala Arg
1 5 10

<210> 14
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Probe

<400> 14
Arg Arg Glu Gly Ser Thr Thr Asp Ser Ala Asn Pro
1 5 10

<210> 15
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Probe

<400> 15
Ser Leu His Gln Asp Tyr Ser Glu Gly Tyr Ser Trp Cys
1 5 10

<210> 16
<211> 15

<212> PRT
<213> Artificial Sequence

<220>
<223> Probe

<400> 16
Cys Lys Pro Lys Arg Ser Leu Lys Arg Asp Asp Thr Lys Asp Thr
1 5 10 15

<210> 17
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Probe

<400> 17
Val Tyr Lys Ser Arg Arg Gly Ile Lys Arg Ser Glu Asp Ser Lys Glu
1 5 10 15

<210> 18
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Probe

<400> 18
Thr Ala Ser Pro Thr Glu Pro His His Gln Gly Arg Leu Gly
1 5 10

<210> 19
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Probe

<400> 19
Ser Pro Gln Gln Thr Ser Ser Gly Thr Asn Asn Lys Pro Tyr Arg Pro
1 5 10 15
Trp

<210> 20
<211> 14
<212> PRT

<213> Artificial Sequence

<220>

<223> Probe

<400> 20

Ser Thr Pro Ser Ser Ser Gln Met Gln Ala Arg Lys Lys Arg
1 5 10

<210> 21

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Probe

<400> 21

Thr Trp Tyr Gln Asn Arg Arg Thr Lys Trp Lys Arg
1 5 10

<210> 22

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Probe

<400> 22

Phe Lys Asn Arg Arg Ala Lys Trp Arg Lys Arg Glu Arg Ser Gln
1 5 10 15

<210> 23

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Probe

<400> 23

Ala Gly His Ser Gln Pro Asp Gly Ala Tyr Ser Ser Ala
1 5 10

<210> 24

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Probe

<400> 24

His Gln His Gln Gln Pro Pro Ser Gly Gly Gly Ala Gly Pro Gly Gly
1 5 10 15

<210> 25

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Probe

<400> 25

His Pro Ser Gln Glu Ser Pro Thr Leu Pro Glu Ser Ser Ala Thr Asp
1 5 10 15
Ser

<210> 26

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Probe

<400> 26

Gly Ser Asp Ser Gln Gln Lys Lys Lys Gly Thr His His
1 5 10

<210> 27

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Probe

<400> 27

Pro Arg Thr Arg Lys Leu Lys Lys Lys Lys Asn Glu Lys
1 5 10

<210> 28

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Probe

<400> 28
Ala Pro Gly Asn His Gln His Pro His Arg Ile Thr Asn Phe
1 5 10

<210> 29
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Probe

<400> 29
Ser Thr Arg Arg Arg Gln Arg Pro Ala Ser Ser Arg Arg Ser Arg Cys
1 5 10 15

<210> 30
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Probe

<400> 30
Gly Gly Asn Glu Gly Ser Pro Cys Pro Pro Cys Pro Gly
1 5 10

<210> 31
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Probe

<400> 31
Pro Pro Gln Asp Ser Ser Ser Lys Ser Pro Glu Pro Ser
1 5 10

<210> 32
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Probe

<400> 32
Gln Asp Ala Lys Pro Arg Val Arg Arg Glu Gln Gln Thr Cys Val

1

5

10

15

```
<210> 33
<211> 14
<212> PRT
<213> Artificial Sequence
```

<220>
<223> Probe

<400> 33
Asp Glu Arg Pro Ala His Lys Asp Gly Pro Thr Glu Ala Ser
1 5 10

```
<210> 34
<211> 13
<212> PRT
<213> Artificial Sequence
```

<220>
<223> Probe

```

<400> 34
Pro His Gly Pro Lys Glu Pro Ser Pro Lys His His Thr
  1             5             10

```

```
<210> 35
<211> 16
<212> PRT
<213> Artificial Sequence
```

<220>
<223> Probe

<400> 35
Cys Ser Ser Glu Asp Asp Asp Ser Lys Glu Ser Thr Cys Ser Pro Thr
1 5 10 15

```
<210> 36
<211> 15
<212> PRT
<213> Artificial Sequence
```

<220>
<223> Probe

<400> 36
Gly Ser Ser Gly Lys Lys Ser Asp Ser Ser Arg Asp Asp Glu Ser
1 5 10 15

<210> 37
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Probe

<400> 37
Lys Pro Ser Thr Pro Glu Ser Pro Ala Lys Ser Glu
1 5 10

<210> 38
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Probe

<400> 38
Leu Arg Pro His Val His Lys Gln Pro Glu Lys Thr Thr Arg
1 5 10

<210> 39
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Probe

<400> 39
Arg Asp Gln Pro Tyr Pro Ser Ser Gln Lys Thr Lys Arg Met Arg Thr
1 5 10 15

<210> 40
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Probe

<400> 40
Cys Phe Ser Arg Gly Glu Ser Val Tyr Cys Lys Asp Asp Phe Phe
1 5 10 15

<210> 41
<211> 17
<212> PRT

<213> Artificial Sequence

<220>

<223> Probe

<400> 41

Glu Asp Tyr Glu Thr Ala Lys Gln Asn Asp Asp Ser Glu Ala Gly Ala
1 5 10 15
Lys

<210> 42

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Probe

<400> 42

Pro Leu Gln Asp Asp Pro Lys Glu Thr Asp Asn Ser Thr Ser Ser Asp
1 5 10 15
Lys

<210> 43

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Probe

<400> 43

Cys Ser Thr Cys Arg Asn Arg Leu Val Pro Gly Asp Arg
1 5 10

<210> 44

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Probe

<400> 44

Asp Asn Gly Ser Phe Leu Arg Arg Arg Lys Arg Phe Lys Arg Gln
1 5 10 15

<210> 45

<211> 15

<212> PRT
<213> Artificial Sequence

<220>
<223> Probe

<400> 45
Ser Glu Pro Ser Gly Ser Pro Pro Ala Pro Ala His Ser Arg Ala
1 5 10 15

<210> 46
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Probe

<400> 46
Gly Asn Gln Lys Asn Ser Pro Asp Arg Val Lys Arg
1 5 10

<210> 47
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Probe

<400> 47
Gln Pro Pro Ser Met Ser Ser Pro Pro Pro Pro Ala
1 5 10

<210> 48
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Probe

<400> 48
Lys Lys Asp His Pro Asp Tyr Lys Tyr Gln Pro Arg Arg Arg Lys Asn
1 5 10 15
Gly

<210> 49
<211> 14
<212> PRT

<213> Artificial Sequence

<220>

<223> Probe

<400> 49

Asp Tyr Pro Asp Tyr Lys Tyr Arg Pro Arg Lys Lys Pro Lys
1 5 10

<210> 50

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Probe

<400> 50

Ala Ser Gln Ser Tyr Ser Tyr His Ser Ser Gly Glu Tyr Ser
1 5 10

<210> 51

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Probe

<400> 51

Asp Gly Asp Thr Glu Lys Gly Gln Pro Ser Arg Pro Thr Lys Ser Lys
1 5 10 15
Asp

<210> 52

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Probe

<400> 52

Pro Asp Ser Leu Asp Gln Pro Gln Pro Met Glu Gln Gly Ser
1 5 10

<210> 53

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Probe

<400> 53

Gly Tyr Ala Asp Ser Pro Ser Ala Thr Pro Ala Ser Arg Ser Pro Gln
1 5 10 15

Arg

<210> 54

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Probe

<400> 54

Ser Pro Ser Thr Asp Asn Pro Thr Thr Ser Ser Leu Ser Pro
1 5 10

<210> 55

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Probe

<400> 55

Asn Ser Lys Asp Thr Thr Lys Thr Pro Ser Ala
1 5 10

<210> 56

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Probe

<400> 56

Lys Pro Ser Gln Lys Lys Gln Ser Leu Lys Asn Thr Asp
1 5 10

<210> 57

<211> 18

<212> PRT

<213> Artificial Sequence

<220>
<223> Probe

<400> 57
Asp Asp Lys Lys His His Asp Ala Glu His His Arg Asp Arg Glu Pro
1 5 10 15
Gly Thr

<210> 58
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Probe

<400> 58
Lys Glu Pro Ser Gly Pro Tyr Glu Ser Asp Glu Asp Lys Ser Asp Tyr
1 5 10 15

<210> 59
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Probe

<400> 59
Ser Thr Pro Ser Ser Lys Thr Lys Asp Leu Gly His Asn Asp Lys Ser
1 5 10 15
Ser

<210> 60
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Probe

<400> 60
Asp Tyr Ser Ser Glu Ser Lys Lys Gln Lys Thr Glu Glu Lys
1 5 10

<210> 61
<211> 24
<212> DNA
<213> Artificial Sequence

<220>

<223> Probe

<400> 61

gagcgcagcc ttagtaggag agga

24

<210> 62

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Probe

<400> 62

ccctctctgt tcctgcaccc aagt

24

<210> 63

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Probe

<400> 63

ccagcatgga aagctctgcc aagatgg

27

<210> 64

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Probe

<400> 64

gacttgcttg ggcgctgact tgtga

25

<210> 65

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Probe

<400> 65

gagcgcagtg tctccacctt actcat

26

<210> 66

<211> 26

<212> DNA

<213> Artificial Sequence

<220>
<223> Probe

<400> 66
ccagttggtg aagtcgagaa gctcct

26

<210> 67
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe

<400> 67
ctccattggc tgagaagaca cgcga

25

<210> 68
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe

<400> 68
gcgtccgagc ctttgcagtg caatgt

26

<210> 69
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe

<400> 69
ctccttccta acttgacctca tccga

25

<210> 70
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe

<400> 70
gtagcagctc ggacaaggcg ttga

24

<210> 71
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe

<400> 71
ccaccatgaa gtcggcctgc aaacccca

28

<210> 72
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe

<400> 72
catggggaag ggctccggct ggaa

24

<210> 73
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe

<400> 73
ccaccatgta gaaatgacag caatgga

27

<210> 74
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe

<400> 74
gatggggttg gacaaagggt tga

23

<210> 75
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe

<400> 75
catgatcgac gagatcctct ccaa

24

<210> 76
<211> 25
<212> DNA
<213> Artificial Sequence

<220>

<223> Probe

<400> 76

ggttcggaag agggatttgg caact

25

<210> 77

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Probe

<400> 77

gcgctatgac cctgagcacg gagatgt

27

<210> 78

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Probe

<400> 78

ggcgcgctaa cgacgttcct aacaa

25

<210> 79

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Probe

<400> 79

cggtccttgc gccaggctcct ttga

24

<210> 80

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Probe

<400> 80

gtactagcga caccacaaac cctcca

26

<210> 81

<211> 24

<212> DNA

<213> Artificial Sequence

<220>
 <223> Probe

<400> 81
 cgacgcggac atggtcatga gctt 24

<210> 82
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

<400> 82
 ccccgcatc tggtttcgag ttagt 25

<210> 83
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

<400> 83
 cgagagtcac gccgaccgca gcgt 24

<210> 84
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

<400> 84
 ccgtgaagct gggctgcgag taga 24

<210> 85
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

<400> 85
 accatggcca cagctgcctc gaa 23

<210> 86
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

 <400> 86
 cggagtgatc ctggcaatgg tgcga 25

 <210> 87
 <211> 22
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 87
 cctcgcttcc tccagtcaga ga 22

 <210> 88
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 88
 cattaccagc gccattccca gcat 24

 <210> 89
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 89
 cggtcgtagt tgagctcctt agca 24

 <210> 90
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 90
 gagcgtgtat cctgggccgt ctagt 25

 <210> 91
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

 <400> 91
 cagagtcact ttgcscgag cctcca 26

 <210> 92
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 92
 gaccttcagt gccatcctga ctct 24

 <210> 93
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 93
 gtgcaggtga cagtgggtat ccaa 24

 <210> 94
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 94
 ggcagcatcc aaggcagatg aagt 24

 <210> 95
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 95
 ctcttgccc ttcaccgtga gctt 24

 <210> 96
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

<400> 96
 ggagatgacc atgaccacca tgccaga 27

<210> 97
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

<400> 97
 cacatcagtt gaggctgctg cata 24

<210> 98
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

<400> 98
 gtggctgata tgcactcgac ccagat 26

<210> 99
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

<400> 99
 cttggaccgg cggttctgga accagat 27

<210> 100
 <211> 31
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

<400> 100
 ccgcatgac aggagtgttt gacagaaggg t 31

<210> 101
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

<400> 101
 ctaatagagt gtcccggagg cca 23

<210> 102
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

<400> 102
 cagcacctaa accagcggtt ccagca 26

<210> 103
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

<400> 103
 catcatctga ggcgaagcca ggaca 25

<210> 104
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

<400> 104
 cgtgttcccc gaggccatga acca 24

<210> 105
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

<400> 105
 gatgtcctcc ccattggcct gctt 24

<210> 106
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

<400> 106
 cacacccccct attcgccctcg cagca 25

<210> 107
 <211> 28
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

<400> 107
 ctatttcctc cggactcgcc tgcttggt 28

<210> 108
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

<400> 108
 cgagcatgga agaacagcag ccgga 25

<210> 109
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

<400> 109
 ggctactcgc tctcgtcttt gtcct 25

<210> 110
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

<400> 110
 ccagcatgga ggagaatgac cccaa 25

<210> 111
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

 <400> 111
 cctactcgct gtccgacttg ccct 24

 <210> 112
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 112
 gggatcacac tgagcttgcc acat 24

 <210> 113
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 113
 cccaggttaa tccccagagg ctcca 25

 <210> 114
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 114
 catgagctga gcggagccac cacagt 26

 <210> 115
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 115
 caatcacctc gactcgcagg gcaa 24

 <210> 116
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

 <400> 116
 gaggccacag gcattgcaca ggtagt 26

 <210> 117
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 117
 gagcacagcc gaggccatgg aggt 24

 <210> 118
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 118
 ccttgggcct ggacttgcac ccga 24

 <210> 119
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 119
 ctggcctcta ccgagcgcggt ctatga 26

 <210> 120
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 120
 ggagtagcac cgccttcagc ataga 25

 <210> 121
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

 <400> 121
 gattgtcatc cgagctgtag tcca

 <210> 122
 <211> 23
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 122
 gccctggccc ttctggaccc tca

 <210> 123
 <211> 23
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 123
 ccatctacat aatgaatccc agt

 <210> 124
 <211> 22
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 124
 gtggaggtaa acttcggcag ta

 <210> 125
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 125
 gaccaagaag cgggcactgt ccat

 <210> 126
 <211> 26
 <212> DNA
 <213> Artificial Sequence

24

23

23

22

24

<220>
<223> Probe

<400> 126
gcgtgagtat gacttccggc accctt

26

<210> 127
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe

<400> 127
ctcacctcca tcaatgccac gccca

25

<210> 128
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe

<400> 128
ccaccagcat gtactgcgcc ttga

24

<210> 129
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe

<400> 129
gcagctcttc agcaagtggc tccta

25

<210> 130
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe

<400> 130
ctctcttgag cagtccagcc acct

24

<210> 131
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe

<400> 131
ccaccatgac cacctcagca agttccca

28

<210> 132
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe

<400> 132
cgatgtccct gccataggct ctgt

24

<210> 133
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe

<400> 133
ccgaaatgca gaggcactat gtga

24

<210> 134
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe

<400> 134
cggagaagaa gggtcctcat taga

24

<210> 135
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe

<400> 135
gcaggatgta cccccagga aggca

25

<210> 136
<211> 25
<212> DNA
<213> Artificial Sequence

<220>	
<223> Probe	
<400> 136	
cctcagggcg acgctgtccg tggaa	25
<210> 137	
<211> 23	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Probe	
<400> 137	
ccaccatgta tccgcagggc aga	23
<210> 138	
<211> 24	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Probe	
<400> 138	
cgctcatctg ggggtgggatg ttgt	24
<210> 139	
<211> 24	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Probe	
<400> 139	
cagagatgca gcggcattat gtca	24
<210> 140	
<211> 25	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Probe	
<400> 140	
gtactgccat tggggtcctt aggct	25
<210> 141	
<211> 25	
<212> DNA	
<213> Artificial Sequence	

<220>
 <223> Probe

 <400> 141
 ggaaaatgcc agctgatata atgga 25

 <210> 142
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 142
 ctaccccagc cagtgtcaac acga 24

 <210> 143
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 143
 gttccgccac ggcctccaca tggagt 26

 <210> 144
 <211> 34
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 144
 ccaccatgaa gagcctgaag ccgctgctgg agaa 34

 <210> 145
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 145
 gagcctgaag ccgctgctgg agaa 24

 <210> 146
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

 <400> 146
 ccgctctccg ccacaggtgc tcca 24

 <210> 147
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 147
 gccacccgat ctccaagcct ctga 24

 <210> 148
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 148
 ctacgtctca ccacggtcgc caca 24

 <210> 149
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 149
 gtggagatgc tcagtcccaa ggagaa 26

 <210> 150
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 150
 ccgctggaag tggtaaagca gcttca 26

 <210> 151
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Probe

<400> 151

ccagcatgaa gcgagctcac cccgagtaca

30

<210> 152

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Probe

<400> 152

ggacagcgag ctggacgaga ccat

24

<210> 153

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Probe

<400> 153

ggctcagtgc attgggagac agta

24

<210> 154

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Probe

<400> 154

ccctccctca ttctacatca gttct

25

<210> 155

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Probe

<400> 155

gacctccgag agcgacatgg acgaga

26

<210> 156

<211> 24

<212> DNA

<213> Artificial Sequence

<220>
 <223> Probe

 <400> 156
 ggctactttg acgcacacgc tctt 24

 <210> 157
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 157
 cactgctggt ctgctgagga ctgga 25

 <210> 158
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 158
 ccaacttctg tccccaggg tcggt 25

 <210> 159
 <211> 23
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 159
 catgaagcga cccaaggagc cga 23

 <210> 160
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 160
 cagctcagaa agccccgatt tcagt 25

 <210> 161
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

 <400> 161
 cggctgctac gaggcggtgt gct 23

 <210> 162
 <211> 23
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 162
 ggagtgcgct cggctgtctg gat 23

 <210> 163
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 163
 accggtcggt ccgatggcag tggaga 26

 <210> 164
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 164
 cgtcgttctt ctccaggtca atgt 24

 <210> 165
 <211> 23
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 165
 cgcgttaaatt gtcggacata cct 23

 <210> 166
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

 <400> 166
 cagccaccat gtccttccca cactt 25

 <210> 167
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 167
 gaactaggat gaggagagag ccgat 25

 <210> 168
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 168
 ccgagatgga ccgcagggcc aaga 24

 <210> 169
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 169
 gtggggtgag ggggttgcgag tcat 24

 <210> 170
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 170
 gaaccatgga ggcgcgcggg gagct 25

 <210> 171
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

 <400> 171
 gtcagaactg agcgtggtct acctcat 27

 <210> 172
 <211> 28
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 172
 gacgatgcaa cagattcccc agtgtgct 28

 <210> 173
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 173
 gaggatggtc catctcatcg agccaa 26

 <210> 174
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 174
 ggctatgatg gtgcaactgtg ctggct 26

 <210> 175
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 175
 cttaccatac ggccgcttcg ttga 24

 <210> 176
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

 <400> 176
 catggtgaat ccgggcagca gctcgca 27

 <210> 177
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 177
 ccttctgggc tggcagtagt ggat 24

 <210> 178
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 178
 gggaacctgt aaacgctctc ggaa 24

 <210> 179
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 179
 caaagtgtg ggattacagg cgtga 25

 <210> 180
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 180
 ccatgcagtc cgaatcgggg atcgt 25

 <210> 181
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

 <400> 181
 ccattctgcat acaggacgct cgtga 25

 <210> 182
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 182
 caagatgttc atcgggggac tcagtt 26

 <210> 183
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 183
 gtacccattg gtgaaggctg tggca 25

 <210> 184
 <211> 27
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 184
 gccatgagct tctttgccac tcggtgt 27

 <210> 185
 <211> 21
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 185
 gacctgggac cctctatgtc a 21

 <210> 186
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Probe

<400> 186

accatggcctt ctccgtccaa aggca

25

<210> 187

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Probe

<400> 187

gtcttcctta ggacaggtgg taca

24

<210> 188

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Probe

<400> 188

ggaggtccgc tcggatgatg acaa

24

<210> 189

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Probe

<400> 189

cacgaagcac atgggcctga ggat

24

<210> 190

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Probe

<400> 190

ggacacggtg ttgtgctctc agaa

24

<210> 191

<211> 25

<212> DNA

<213> Artificial Sequence

<220>
 <223> Probe

 <400> 191
 cagttacgtg gccggttcca tcaca 25

 <210> 192
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 192
 ggaaccgagg tgccaatgga ttcact 26

 <210> 193
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 193
 gaagttggag ccactgtccc agccat 26

 <210> 194
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 194
 ggcagcggtg gaacagaggt tgga 24

 <210> 195
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 195
 ctctaaactg gagtggtcag ggct 24

 <210> 196
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

 <400> 196
 ccaccatggg taacaacttc tccagt 26

 <210> 197
 <211> 23
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 197
 cccgtcactt ctcaccgatg cca 23

 <210> 198
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 198
 ctcggtgagc ctatgcgacc tcaa 24

 <210> 199
 <211> 23
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 199
 ggcacgttga ggctgcatag gct 23

 <210> 200
 <211> 23
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 200
 ctcgggcagg ctactggcg aat 23

 <210> 201
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Probe

<400> 201

ctaggagctg cggtaggtct tgat

24

<210> 202

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Probe

<400> 202

gctaggagct gcggtaggtc ttgat

25

<210> 203

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Probe

<400> 203

gccccagggc tatgagacta tcaact

25

<210> 204

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Probe

<400> 204

ccaacatgac caaatcgtag agcgaga

27

<210> 205

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Probe

<400> 205

ccgacagagc ccagatgtag ttctt

25

<210> 206

<211> 25

<212> DNA

<213> Artificial Sequence

<220>
 <223> Probe

 <400> 206
 ggtgaaactg gcgtgcctct aatca 25

 <210> 207
 <211> 28
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 207
 gtagagatgc cacactcgct ccgcggtt 28

 <210> 208
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 208
 cgatcttgga cagcttctgc gtct 24

 <210> 209
 <211> 23
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 209
 cggcgcgaag tctcagttat gaa 23

 <210> 210
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 210
 gactccagga gacgatgcga cactca 26

 <210> 211
 <211> 28
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

 <400> 211
 ccgccatggt aacactaccg tttgatga 28

 <210> 212
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 212
 caagcagcct gccaccaagt ttgta 25

 <210> 213
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 213
 gacaggggag gtgaatgacc actggt 26

 <210> 214
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 214
 ccggcgacat cactcaggag acca 24

 <210> 215
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 215
 ctgtccgtcg gtcctgcaca gcgcaa 26

 <210> 216
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

 <400> 216
 gtggttaagga atgaaacagg gcgt 24

 <210> 217
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 217
 ccaggatggt cgtcaaattct gagact 26

 <210> 218
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 218
 cagctctaga tacagtcctt gccga 25

 <210> 219
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 219
 cctcgctgct catcgctctc tattct 26

 <210> 220
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 220
 ccacgatgac gcctcaaccc tcgggt 26

 <210> 221
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

 <400> 221
 ctgcttgctc agtgccaact cgctct 26

 <210> 222
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 222
 cagcgacaga caggtccttt cacaga 26

 <210> 223
 <211> 28
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 223
 cagaaaatct gagaaagcca gactgcct 28

 <210> 224
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 224
 ggtctcgaac catgtcgctg accaa 25

 <210> 225
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 225
 gggctttgag cgcgtgacat gggt 24

 <210> 226
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

 <400> 226
 cccacgccct tctcagtcaa agaca 25

 <210> 227
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 227
 cgacgccgaa gttcacgaag ttgt 24

 <210> 228
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 228
 gctaatatcc cggctgccag cgcat 25

 <210> 229
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 229
 ctgcggcctc accagttcca ggaga 25

 <210> 230
 <211> 23
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 230
 gcatggagcg ctgccccagc cta 23

 <210> 231
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

 <400> 231
 cccgagttct agcacgagca ctt 23

 <210> 232
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 232
 cagcggcagg aactgcaaac atgat 25

 <210> 233
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 233
 cagccttcac agtagcacct ccctt 25

 <210> 234
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 234
 ggaaccacag agcgggtatg ccta 24

 <210> 235
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 235
 cagggagttg gtgttgtagc cgtaa 25

 <210> 236
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

 <400> 236
 ggtgacccgc tgactgatga ggtat 25

 <210> 237
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 237
 cagtgacttc tagagctcag tggca 25

 <210> 238
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 238
 ccaggcgcag aatctcaatc ttgga 25

 <210> 239
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 239
 ccaagcatct ccaagccact gact 24

 <210> 240
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 240
 ccaggacgtg gttgagatag gaga 24

 <210> 241
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

 <400> 241
 cagtgatctg gaggagctgg agcaa 25

 <210> 242
 <211> 27
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 242
 ggcgatcagc aggatctcct ctgaggt 27

 <210> 243
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 243
 cactttgaga agcagccgcc ttcca 25

 <210> 244
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 244
 ccctatgatg atgacagtcg cacct 25

 <210> 245
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 245
 gcagcgggct gaacctgaag gagga 25

 <210> 246
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

 <400> 246
 gggcgtctca ttccggttgc caca 24

 <210> 247
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 247
 ctagaggacg aggcagagct ggaca 25

 <210> 248
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 248
 ccacccagct gttagcatga tgtct 25

 <210> 249
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 249
 cagacatctt catgcgagag gaggt 25

 <210> 250
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 250
 gagatggctg gtgactgcat tggta 25

 <210> 251
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

 <400> 251
 ccagccagag ccagcatgca gaaca 25

 <210> 252
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 252
 ggttggtaga cactgggtgct gaaact 26

 <210> 253
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 253
 gtagcctttg gagatggacg agca 24

 <210> 254
 <211> 23
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 254
 ctgcatctgg atggagctga act 23

 <210> 255
 <211> 23
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 255
 ccgatggact actcctacct caa 23

 <210> 256
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

 <400> 256
 cgtggactcc ttggaatcgt cgtct 25

 <210> 257
 <211> 23
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 257
 gagtggccct gacttggtct cca 23

 <210> 258
 <211> 36
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 258
 gcagtatggc tgggatggac acctcgagcc tggctt 36

 <210> 259
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 259
 ctccagccac cttctccata tcca 24

 <210> 260
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 260
 gctctcgtcg tccctggaag agtca 25

 <210> 261
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

 <400> 261
 cgccgcagga ttccagatca gaaca 25

 <210> 262
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 262
 gccgcaggat tccagatcag aaca 24

 <210> 263
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 263
 ccagtatggc cgggatggat acct 24

 <210> 264
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 264
 cgcagatcgc agatcagaac atact 25

 <210> 265
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 265
 ccaccatgga gttcggcctg ctca 24

 <210> 266
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

 <400> 266
 cctttccacg gcgtactggc acggact 27

 <210> 267
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 267
 ggcatggagt ttgggctgct tgggtga 26

 <210> 268
 <211> 27
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 268
 cacggcgtac tggcaggggc taagggtt 27

 <210> 269
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 269
 ggttacatgg gactggacag cgcgt 25

 <210> 270
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 270
 ctaagtctgg atgaagaggt ggaa 24

 <210> 271
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

 <400> 271
 gtgaccgctg cggctacaat actaa 25

 <210> 272
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 272
 ggacaagtag gatgcttaga ttgga 25

 <210> 273
 <211> 23
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 273
 ccagcatgtc gcggaggaag caa 23

 <210> 274
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 274
 ggaggaagca agcgaagcct caaca 25

 <210> 275
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 275
 cgagttgagg tagagaggtt gtga 24

 <210> 276
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

 <400> 276
 gaaagcagcg gaaaccccaa cagt 24

 <210> 277
 <211> 29
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 277
 ccaggatgac ttcactacca agctgggca 29

 <210> 278
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 278
 gcagcacccg tagctcttcc aagat 25

 <210> 279
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 279
 ggctcatggg atcgtggggt catct 25

 <210> 280
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 280
 cgatcatgaa gcaccgcaag ggcaa 25

 <210> 281
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Probe

<400> 281

gaactttcttc tggcagatgg ggca

24

<210> 282

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Probe

<400> 282

ggaacatgga cgaaggaatt cctca

25

<210> 283

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Probe

<400> 283

caagtgggttg atcagctgga caca

24

<210> 284

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Probe

<400> 284

ctagtgcaga caggagcgcg cagt

24

<210> 285

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Probe

<400> 285

gagcacggag acctaccagg gatgt

25

<210> 286

<211> 24

<212> DNA

<213> Artificial Sequence

<220>
 <223> Probe

 <400> 286
 cgtgaacctg cgtccgtggt cact 24

 <210> 287
 <211> 23
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 287
 gcagcaggat cccctagaga gtt 23

 <210> 288
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 288
 aggatgctgc tgctggcgag atgt 24

 <210> 289
 <211> 27
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 289
 gccctgctcc aggtgcaccg tggccga 27

 <210> 290
 <211> 29
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 290
 gccatggtat tccgctcccc cctagacct 29

 <210> 291
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

 <400> 291
 gcctggtgct ggagcctggt ctt 23

 <210> 292
 <211> 29
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 292
 ggctatcata catcacattc cgagtcgct 29

 <210> 293
 <211> 29
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 293
 cgtatgttca ggtccaaacg ctcggggct 29

 <210> 294
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 294
 ccgccactat ctgggggttg tgagga 26

 <210> 295
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 295
 ccccgcatgt tcaggaccaa acga 24

 <210> 296
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

 <400> 296
 cacgcggcta ccggtgttg aaga 24

 <210> 297
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 297
 cccgatgtac agcatgatga tggaga 26

 <210> 298
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 298
 gtacatgctg atcatctcgc gcaggt 26

 <210> 299
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 299
 gccatgtaca acatgatgga gacgga 26

 <210> 300
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 300
 cctccagttc gctgtccggc cctca 25

 <210> 301
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

 <400> 301
 caggcagact gtgaatgcga cctgt 25

 <210> 302
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 302
 ctcagatgtg ggtcagcggc accgtt 26

 <210> 303
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 303
 gtgggcgttg gactctttgc gagga 25

 <210> 304
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 304
 gcgacatggc ggaggagcag gatct 25

 <210> 305
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 305
 gctgggtactt gtagtcggg tggctt 26

 <210> 306
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

 <400> 306
 ccttttagggc cgggacagtg tcgt 24

 <210> 307
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 307
 cacgttgccg aagtcgatgt gaggct 26

 <210> 308
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 308
 ggatcatggt gcagcaggcg gaga 24

 <210> 309
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 309
 ccagaaacac gcacttgacc gtctt 25

 <210> 310
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 310
 gcgattgact gcctggagga tgaga 25

 <210> 311
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

 <400> 311
 cgaagcacct gctgccacct tgtct 25

 <210> 312
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 312
 ctggacgagg tcttcttcaa cagcga 26

 <210> 313
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 313
 ggaatggtcc tcgtccgaag tgaga 25

 <210> 314
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 314
 gcatagttgg cccgatgacc atgct 25

 <210> 315
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 315
 gggtaagctc ctcttcagga aaggca 26

 <210> 316
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

 <400> 316
 ggtaacacgg cgggtttcac caca 24

 <210> 317
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 317
 gcctgctcat atctgtcgtc atcct 25

 <210> 318
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 318
 gtagagcagc agtgaatggc ttgt 24

 <210> 319
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 319
 ggatcagaac aacagcctgc cacct 25

 <210> 320
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 320
 gcggtacaat cccagaactc tccgaa 26

 <210> 321
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

 <400> 321 26
 ggcacgaagt gcaatgggtct ttaggt

 <210> 322
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 322 26
 cgtgggttcgt ggctctctta tcctca

 <210> 323
 <211> 27
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 323 27
 cttcacatca cagctcccca ccatgtt

 <210> 324
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 324 26
 ggaggcaagg gtacatgaga gccatt

 <210> 325
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 325 24
 ccagtctgag cgttgcgttc gggtt

 <210> 326
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

 <400> 326
 ggcccttgga ctcagtgagg aaca 24

 <210> 327
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 327
 cgtctgagga ttctgttttg gagga 25

 <210> 328
 <211> 28
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 328
 ctcggaagg gctgagagat aatctggt 28

 <210> 329
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 329
 cggcttgcta agctgtcaat gggt 24

 <210> 330
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 330
 gtagacaagg gctaagtgca gaca 24

 <210> 331
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

 <400> 331
 gtgttgacgg acctactgcc aagga 25

 <210> 332
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 332
 ggtatcatgc tggaaagtgc ctct 24

 <210> 333
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 333
 gccaaagcgca agttgtctga tgat 24

 <210> 334
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 334
 cgttctctac cagacatacc tgctca 26

 <210> 335
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 335
 gcagccagga acatcaggtg ctta 24

 <210> 336
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>	
<223> Probe	
<400> 336	25
gggagtgag tctctatgga agagt	
<210> 337	
<211> 26	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Probe	
<400> 337	26
caccttccac ttgcactcct tgatgt	
<210> 338	
<211> 25	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Probe	
<400> 338	25
gtggacgact gtggcagaat ggaga	
<210> 339	
<211> 26	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Probe	
<400> 339	26
ggtcaagagt tccatgtgga ctagca	
<210> 340	
<211> 26	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Probe	
<400> 340	26
ctgctgtctg ggaatgtctg cctgct	
<210> 341	
<211> 25	
<212> DNA	
<213> Artificial Sequence	

<220>
 <223> Probe

 <400> 341
 ccacgagagg atgtctccca gcctt 25

 <210> 342
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 342
 cgataccagg atagcagttt actct 25

 <210> 343
 <211> 28
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 343
 ccacgatgct cctggacgcc ggccccca 28

 <210> 344
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 344
 cggagcagta cggccaggtg acca 24

 <210> 345
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 345
 gattcgcagg gttctttcag taatgt 26

 <210> 346
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

 <400> 346
 gattcgcagg gttctttcag taatgt 26

 <210> 347
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 347
 cgccgagatg caggaccgtg aact 24

 <210> 348
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 348
 ggaggtgtgg acgtgcatgt gctt 24

 <210> 349
 <211> 23
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 349
 gccatgacga tgctcctgga cgg 23

 <210> 350
 <211> 23
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 350
 cctcagacgt accattcggtt aaa 23

 <210> 351
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe

 <400> 351
 cggcaacatg gtgcggtcgg ggaa 24

 <210> 352
 <211> 29
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 352
 ccaacatggt gcggtcgggg aataaggca 29

 <210> 353
 <211> 28
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 353
 ccacatgag tactgcagat gcacttga 28

 <210> 354
 <211> 28
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 354
 cctgtatctt gcatgtttct cagggcca 28

 <210> 355
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 355
 ccacgatgtg gaaactgct 19

 <210> 356
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Probe

<400> 356

gcctgaagta gatgcttact agga

24

<210> 357

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Probe

<400> 357

gttggtgcca ctccgccacc atggt

25

<210> 358

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Probe

<400> 358

gcctaagatc cttcttcatc ctcgat

26

<210> 359

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Probe

<400> 359

cgaccatggt gcggcctgtg agacataaga

30

<210> 360

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Probe

<400> 360

ccacactcag gtgctagtgg catt

24

<210> 361

<211> 29

<212> DNA

<213> Artificial Sequence

<220>
 <223> Probe

 <400> 361
 ccagcatggg tagcaagaaa ctaaaacga 29

 <210> 362
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 362
 ctgtctctag gaatttccat aggct 25

 <210> 363
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 363
 gcaagatgtc tgggactgag gaagca 26

 <210> 364
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 364
 gtggcctgag cctcagtaag atggat 26

 <210> 365
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe

 <400> 365
 ggcgcgctaa cgacgttcct aacaa 25

 <210> 366
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Probe

<400> 366

cactatgtgc cagtagcttg agtggt

26

<210> 367

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Probe

<400> 367

cgagaatgga ggtggaggcc gtctgt

26

<210> 368

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Probe

<400> 368

gtcagtcagt gaagtctctg ctct

24

<210> 369

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Probe

<400> 369

ccacgatggt gccctccagc ccagcgg

28

<210> 370

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Probe

<400> 370

gcccagaggt cactggttca catt

24

<210> 371

<211> 30

<212> DNA

<213> Artificial Sequence

<220>	
<223> Probe	
<400> 371	
ccagcatggg ggacatgatg gacttgccca	30
<210> 372	
<211> 24	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Probe	
<400> 372	
gatcaatcat gttgcacaat ccct	24
<210> 373	
<211> 27	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Probe	
<400> 373	
cgaccatgga gggaggcttg aagagga	27
<210> 374	
<211> 26	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Probe	
<400> 374	
ccctctatca cagtttttagg acccca	26
<210> 375	
<211> 24	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Probe	
<400> 375	
ccgcgatgtg tagtgccttc cata	24
<210> 376	
<211> 24	
<212> DNA	
<213> Artificial Sequence	

<220>
<223> Probe

<400> 376
gcgtagtacc ctgcaaaaga ctat

24

<210> 377
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe

<400> 377
gcacatgga tttggatcta ctggacctga

30

<210> 378
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe

<400> 378
gtgttgtgca gccgccaccg tgtcagt

27

<210> 379
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe

<400> 379
ccacatgga gagaaaaata agcaga

26

<210> 380
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe

<400> 380
ctcatcaaag aggtcttctg ggctgct

27